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| FORM PTO-1449<br><br><b>FIFTH SUPPLEMENTAL<br/>INFORMATION DISCLOSURE STATEMENT</b> | ATTY. DOCKET NO.<br>0942.2800008/RWE/RCM/GLL | APPLICATION NO.<br>09/229,173 |
|   | APPLICANT<br>Chatterjee, Deb K.              |                               |
|   | FILING DATE<br>January 13, 1999              | GROUP<br>1652                 |

| U.S. PATENT DOCUMENTS |    |                 |      |      |       |           |             |
|-----------------------|----|-----------------|------|------|-------|-----------|-------------|
| EXAMINER<br>INITIAL   |    | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|                       | AA |                 |      |      |       |           |             |
|                       | AB |                 |      |      |       |           |             |
|                       | AC |                 |      |      |       |           |             |
|                       | AD |                 |      |      |       |           |             |
|                       | AE |                 |      |      |       |           |             |
|                       | AF |                 |      |      |       |           |             |
|                       | AG |                 |      |      |       |           |             |
|                       | AH |                 |      |      |       |           |             |
|                       | AI |                 |      |      |       |           |             |
|                       | AJ |                 |      |      |       |           |             |
|                       | AK |                 |      |      |       |           |             |

| FOREIGN PATENT DOCUMENTS |     |                 |            |         |       |           |             |
|--------------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| EXAMINER<br>INITIAL      |     | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL  |                 |            |         |       |           | Yes<br>No   |
|                          | AM  |                 |            |         |       |           | Yes<br>No   |
| RH                       | AN2 | WO 97/09451 A1  | 03/13/1997 | WIPO    |       |           | Yes<br>No   |
|                          | AO  |                 |            |         |       |           | Yes<br>No   |
|                          | AP  |                 |            |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) |    |    |   |
|--|----|----|---|
|  | AR |    |   |
|  | AS |    |   |
| RH   | AT | 15 | Childers, S.E. et al., "Improved Methods for Cultivation of the Extremely Thermophilic Bacterium <i>Thermotoga neapolitana</i> ," Appl. Environ. Microbiol. 58:3949-3953, American Society for Microbiology (1992). |

|   |                         |
|---|-------------------------|
| EXAMINER<br>  | DATE CONSIDERED 11/3/03 |
| <b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. |                         |

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|---|---------------------------|--|--------------|---------------------------------------|-----------|-------------|
| <p>TECH CENTER 1600/2900</p> <p>FORM PTO-1449</p> <p>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</p> <p>NOV 2001</p>   |                           | <p>ATTY. DOCKET NO.<br/>0942.2800008/RWE/RCM/GLL</p> |              | <p>APPLICATION NO.<br/>09/229,173</p> |           |             |
| <p>APPLICANT<br/>Chatterjee, Deb K.</p>   |                           | <p>FILING DATE<br/>January 13, 1999</p>              |              | <p>GROUP<br/>1652</p>                 |           |             |
| U.S. PATENT DOCUMENTS   |                           |  |              |                                       |           |             |
| EXAMINER<br>INITIAL   | DOCUMENT NUMBER           | DATE   | NAME         | CLASS                                 | SUB-CLASS | FILING DATE |
| AA  |                           |  |              |                                       |           |             |
| AB  |                           |  |              |                                       |           |             |
| AC  |                           |  |              |                                       |           |             |
| AD  |                           |  |              |                                       |           |             |
| AE  |                           |  |              |                                       |           |             |
| AF  |                           |  |              |                                       |           |             |
| AG  |                           |  |              |                                       |           |             |
| AH  |                           |  |              |                                       |           |             |
| AI  | 6,306,588 B1              | 10/23/2001   | Solus et al. | 435                                   | 6         | 02/06/1998  |
| AJ  |                           |  |              |                                       |           |             |
| AK  |                           |  |              |                                       |           |             |
| FOREIGN PATENT DOCUMENTS  |                           |  |              |                                       |           |             |
| EXAMINER<br>INITIAL   | DOCUMENT NUMBER           | DATE   | COUNTRY      | CLASS                                 | SUB-CLASS | TRANSLATION |
| AL  |                           |  |              |                                       |           | Yes<br>No   |
| AM  |                           |  |              |                                       |           | Yes<br>No   |
| AN  |                           |  |              |                                       |           | Yes<br>No   |
| AO  |                           |  |              |                                       |           | Yes<br>No   |
| AP  |                           |  |              |                                       |           | Yes<br>No   |
| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)  |                           |  |              |                                       |           |             |
| AR  |                           |  |              |                                       |           |             |
| AS  |                           |  |              |                                       |           |             |
| AT  |                           |  |              |                                       |           |             |
| EXAMINER  | <p><i>[Signature]</i></p> |  |              | <p>DATE CONSIDERED 3/27/03</p>        |           |             |
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